

WHAT IS CLAIMED IS:

1. A data processing device comprising:
  - a read-only memory;
  - a flash memory capable of modifying information stored therein and adding information thereto;
  - 5 a central processing unit performing data processing using information stored in said read-only memory and said flash memory;
  - an information storage area provided in said flash memory for storing predetermined modifiable information among the information used by said central processing unit for data processing;
  - 10 an address storage area provided in said flash memory for storing at least the address of the information stored in said information storage area; and
  - an address-modification control unit for, after at least one of modification of modifiable information stored in said information storage area and addition of modifiable information to said information storage area, and in accordance with said
  - 15 one of the modification of the information and addition of the information, performing one of modification of the address of the information stored in said address storage area and addition of the address of the information to said address storage area,
  - whereby the information used by said central processing unit for data
  - 20 processing can be freely modified or added.

2. A data processing device comprising:
  - a read-only memory;
  - a flash memory capable of modifying information stored therein and adding information thereto;
  - 5 a central processing unit performing data processing using information stored

in said read-only memory and said flash memory;

an information storage area provided in said read-only memory for storing information used by said central processing used for data processing;

10 an address storage area provided in said flash memory for storing at least the address of predetermined modifiable information among the information stored in said information storage area;

a modified-information storage area provided in said flash memory for storing modified modifiable information; and

15 an address-modification control unit for, after the modified modifiable information is stored in said modified-information storage area of said flash memory, and in accordance with the modification of the information, modifying the address of the information stored in said address storage area,

whereby the information of said central processing unit used for data processing unit can be freely modified or added.

3. A data processing device comprising:

a read-only memory;

a flash memory capable of modifying information stored therein and adding information thereto;

5 a central processing unit performing data processing using information stored in said read-only memory and said flash memory;

an information storage area provided in said read-only memory for storing information used by said central processing unit for data processing;

10 a modified-information storage area provided in said flash memory for storing modified predetermined modifiable information among the information stored in said information storage area; and

an information-modification determining unit for determining whether modified information is stored in said modified-information storage area,

15            wherein, when said information-modification determining unit determines  
that the modified information is stored in said modified-information storage area of  
said flash memory, said central processing unit is arranged to perform data  
processing in accordance with the modified information stored in said flash memory  
instead of information stored in said read-only memory.

4. A method in a data processing device comprising:  
a read-only memory;  
a flash memory capable of modifying information stored therein and adding  
information thereto;  
5            a central processing unit performing data processing using information stored  
in said read-only memory and said flash memory;  
an information storage area in said flash memory; and  
an address storage area in said flash memory;  
said method comprising the steps of:  
10            storing in said information storage area predetermined modifiable  
information among the information used by said central processing unit for data  
processing;  
storing in said address storage area at least the address of the information  
stored in said information storage area;  
15            performing at least one of modification of modifiable information stored in  
said information storage area and addition of modifiable information to said  
information storage area; and  
then, in accordance with said one of modification of the information and  
addition of the information, performing one of modification of the address of the  
20            information stored in said address storage area and addition of the address of the  
information to said address storage area,  
whereby the information used by said central processing unit for data

processing can be freely modified or added.

5. A method in a data processing device comprising:

a read-only memory;

a flash memory capable of modifying information stored therein and adding information thereto;

5 a central processing unit performing data processing using information stored in said read-only memory and said flash memory;

an information storage area in said read-only memory;

an address storage area in said flash memory; and

a modified-information storage area in said flash memory;

10 said method comprising the steps of:

storing in said information storage area information used by said central processing unit for data processing;

storing in said address storage area at least the address of predetermined modifiable information among the information stored in said information storage area;

15 storing modified modifiable information in said modified-information storage area; and

after the modified modifiable information is stored in said modified-information storage area of said flash memory, and in accordance with the modification of the information, modifying the address of the information stored in said address storage area,

20

whereby the information of said central processing unit used for data processing unit can be freely modified or added.

6. A method in a data processing device comprising:

a read-only memory;

a flash memory capable of modifying information stored therein and adding information thereto;

5           a central processing unit performing data processing using information stored in said read-only memory and said flash memory;

an information storage area in said read-only memory; and

a modified-information storage area in said flash memory;

said method comprising the steps of:

10           storing in said information storage area information used by said central processing unit for data processing;

storing, in said modified-information storage area, modified predetermined modifiable information among the information stored in said information storage area;

15           determining whether modified information is stored in said modified-information storage area; and

when said modified information is stored in said modified-information storage area of said flash memory, performing data processing in said central processing unit in accordance with the modified information stored in said flash memory instead of information stored in said read-only memory.

20